INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Complete if Known
Application Number	09/840,125
Filing Date	24 April 2001
First Named Inventor	Igor SPLAWSKI et al.
Group Art Unit	~~1655~~ 1634
Examiner Name	
Sheet 1 of 9	Attorney Docket Number 2323-158

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
JP		5,599,673		Keating et al.	02/04/1997

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Office	Number	Kind Code (if known)	Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T[6]
JP		WO	97/23598		University of Utah Research Foundation	07/03/1997	

Examiner Signature	Johanne Souaya	Date Considered	9/22/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Unique citation designation number. [2]See attached Kinds of U.S. Patent Documents. [3]Enter Office that issued the document, by the two-letter code. [4]For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6]Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Complete if Known
Application Number	09/840,125
Filing Date	24 April 2001
First Named Inventor	Igor SPLAWSKI et al.
Group Art Unit	~~1655~~ 1634
Examiner Name	
Sheet 2 of 9	Attorney Docket Number 2323-158

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
CP		ABRIEL, H. et al., "Molecular Pharmacology of the Sodium Channel Mutqtion D1790G Linked to the Long-QT Syndrome," Circulation 102(8):921-925, 2000.	
		ACKERMAN, M.J. "The Long QT Syndrome: Ion Channel Diseases of the Heart", *Mayo Clin. Proc.*, 1998; 73:250-269	
		ACKERMAN, M.J. et al. "Molecular Diagnosis of the Inherited Long-QT Syndrome in a Woman Who Died After Near-Drowning", *N. Engl. J. Med.*, Oct. 7, 1999; 341(15):1121-1125	
		ACKERMAN, M.J. et al. "A Novel Mutation in KVLQT1 is the Molecular Basis of Inherited Long QT Syndrome in a Near-Drowning Patient's Family", *Pediatr. Research*, 1998; 44(2):148-153	
		AKAI, J. et al. "A novel SCN5A mutation associated with idiopathic ventricular fibrillation without typical ECG findings of Brugada syndrome", *FEBS*, 2000; 479:29-34	
		al RAKAF, M. et al., "Jervell and Lange-Nielsen QT syndrome: a case report from Saudi Arabia, *Int'l. J. of Pediatric Otorhinolaryngology* 39:163-168, 1997.	
		AN, R.H. et al. "Novel LQT-3 Mutation Affects Na^+ Channel Activity Through Interactions Between α- and β_1-Subunits", *Circ. Res.*, 1998; 83:141-146	
		BAROUDI, G. et al. "SCN5A mutation (T1620M) causing Brugada syndrome exhibits different phenotypes when expressed in *Xenopus* oocytes and mammalian cells", *FEBS*, 2000; 467:12-16	
		BENHORIN, J. et al., "Identification of a New SCN5A Mutation D1840G, Associated With the Long QT Syndrome *Hum. Mutat.* 12(1):72, 1998.	
		BENHORIN, J. et al. "Effects of Flecainide in Patients with New SCN5A Mutation. Mutation-Specific Therapy for Long-QT Syndrome?", *Circulation*, 2000; 101:1698-1706	
		BENHORIN, J. et al. "Evidence of Genetic Heterogeneity in the Long QT Syndrome", *Science*, June 25, 1993; 260:1960-1962	
		BENNETT, P.B. et al. "Molecular mechanism for an inherited cardiac arrhythmia", *Nature*, Aug. 24, 1995; 376:683-685	
↓		BEZZINA, C. et al. "A Single Na^+ Channel Mutation Causing Both Long-QT and Brugada Syndromes", *Circ. Res.*, 1999; 85:1206-1213	

Examiner Signature	Johanne Sonnale	Date Considered	9/22/03

*EXAMINER: Initial if referenc considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.

DEC 27 2001

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	09/840,125
				Filing Date	24 April 2001
				First Named Inventor	Igor SPLAWSKI et al.
				Group Art Unit	~~1655~~ 1634
				Examiner Name	
Sheet	3	of	9	Attorney Docket Number	2323-158

RECEIVED
DEC 28 2001
TECH CENTER 1600/2900

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		BULMAN, D.E. "Phenotype variation and newcomers in ion channel disorders", *Human Molecular Genetics*, 1997; 6(10):1679-1685	
		CHEN, Q. et al. "Genetic basis and molecular mechanism for idiopathic ventricular fibrillation", *Nature*, Mar. 19, 1998; 392:293-296	
		CHEN, Q. et al. "Homozygous Deletion in KVLQT1 Associated with Jervell and Lange-Nielsen Syndrome", *Circulation*, 1999; 99:1344-1347	
		CHOUABE, C. et al. "Novel mutations in KvLQT1 that affect I_{ks} activation through interactions with Isk", *Cardiovascular Research*, 2000; 45:971-980	
		CHOUABE, C. et al. "Properties of KvLQT1 K+ channel mutations in Romano-Ward and Jervell and Lange-Nielsen inherited cardiac arrhythmias", *The EMBO Journal*, 1997; 16(17):5472-5479	
		CLANCY, C.E. et al. "Linking a genetic defect to its cellular phenotype in a cardiac arrhythmia", *Nature*, Aug. 5, 1999; 400:566-569	
		COONAR, A.S. et al. "Molecular Genetics of Familial Cardiomyopathies", *Advances in Genetics*, 1997; 35:285-324	
		CURRAN, M. et al. "Locus Heterogeneity of Autosomal Dominant Long QT Syndrome", *J. Clin. Invest.*, 1993; 92:799-803	
		DE JAGER, T. et al. "Evidence of a long QT founder gene with varying phenotypic expression in South African families", *J. Med. Genet.*, 1996; 33:567-573	
		DESCHENES, I. et al. "Electrophysiological characterization of SCN5A mutations causing long QT (E1784K) and Brugada (R1512W and R1432G) syndromes", *Cardiovascular Research*, 2000; 46:55-65	
		DONGER, C. et al. "KVLQT1 C-Terminal Missense Mutation Causes a Forme Fruste Long-QT Syndrome", *Circulation*, 1997; 96:2778-2781	
		DUMAINE, R. et al. "Ionic Mechanisms Responsible for the Electrocardiographic Phenotype of the Brugada Syndrome Are Temperature Dependent", *Circ. Res.*, 1999; 85:803-809	

Examiner Signature		Date Considered	9/22/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Complete if Known
Application Number	09/840,125
Filing Date	24 April 2001
First Named Inventor	Igor SPLAWSKI
Group Art Unit	~~1655~~ 1634
Examiner Name	
Attorney Docket Number	2323-158

Sheet 4 of 9

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		FRANQUEZA, L. et al. "Long QT Syndrome-associated Mutations in the S4-S5 Linker of KvLQT1 Potassium Channels Modify Gating and Interaction with minK Subunits", *J. Biological Chemistry*, July 23, 1999; 274(30):21063-21070; *J. Biological Chemistry*, Aug. 27, 1999; 274(35):25188	
		GEORGE, A.L. et al. "Assignment of the human heart tetrodotoxin-resistant voltage-gated Na^+ channel α-subunit gene (SCN5A) to band 3p21", *Cytogenet. Cell Genet.*, 1995; 68:67-70	
		HOFFMAN, E.P. et al. "Ion Channels - Molecular Divining Rods Hit Their Clinical Mark", *N. Engl. J. Med.*, May 29, 1997; 336(22):1599-1600	
		IWASA, H. et al. "Twenty single nucleotide polymorphisms (SNPs) and their allelic frequencies in four genes that are responsible for familial long QT syndrome in the Japanese population", *J. Hum. Genet.*, 2000; 45(3):182-183.	
		ITOH, T. et al. "Genomic organization and mutational analysis of KVLQT1, a gene responsible for familial long QT syndrome", *Hum. Genet.*, 1998; 103:290-294	
		JONGBLOED, R.J. et al., "Novel KCNQ1 and HERG Missense Muations in Dutch Long-QT Families," *Hum. Mutat.* 13(4):301-310, 1999.	
		KAMBOURIS, N.G. et al. "A revised view of cardiac sodium channel "blockade" in the long-QT syndrome", *J. Clin. Invest.*, 2000; 105:1133-1140	
		KAMBOURIS, N.G. et al. "Phenotypic Characterization of a Novel Long-QT Syndrome Mutation (R1623Q) in the Cardiac Sodium Channel", *Circulation*, 1998; 97:640-644	
		KANTERS, J.K. et al., "Novel Donor Splice Site Mutation in the *KVLQT1* Gene is Asociated with Long QT Syndrome," *J. Cardiovasc. Electrophysiol.* 9(6):620-624, 1998.	
		KEATING, M. et al. "Consistent Linkage of the Long-QT Syndrome to the Harvey Ras-1 Locus on Chromosome 11", *Am. J. Hum. Genet.*, 1991; 49:1335-1339	
		KEATING, M.T. "Genetic Approaches to Cardiovascular Disease. Supravalvular Aortic Stenosis, Williams Syndrome, and Long-QT Syndrome", *Circulation*, 1995; 92:142-147	
		KEATING, M. et al. "Linkage of a Cardiac Arrhythmia, the Long QT Syndrome, and the Harvey ras-1 Gene", *Science*, May 3, 1991; 252:704-706	
✓		KEATING, M. et al. "Linkage Analysis and Long QT Syndrome. Using Genetics to Study Cardiovascular Disease", *Circulation*, 1992; 85:1973-1986	

Examiner Signature	Jehanne Sourgens	Date Considered	9/22/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Complete if Known
Application Number	09/840,125
Filing Date	24 April 2001
First Named Inventor	Igor SPLAWSKI
Group Art Unit	~~1655~~ 1634
Examiner Name	
Sheet 5 of 9	Attorney Docket Number 2323-158

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
gp		KEATING, M.T. "The Long QT Syndrome. A Review of Recent Molecular Genetic and Physiologic Discoveries", *Medicine*, 1996, 75(1):1-5	
		KOMSUOGLU, B. et al. "The Jervell and Lange-Nielsen syndrome", *International Journal of Cardiology*, 1994; 47:189-192	
		KRAHN, A.D., et al. "A novel mutation in KVLQT1, L122P, found in a family with autosomal dominant long QT syndrome", *Am. Heart J.*, 2000; 140:146-149	
		KUBOTA, T. et al., "Hypokalemia-Induced Long QT Syndrome with an Underlying Novel Missense Mutation in S4-S5 Linker of KCNQ1," *J. Cardiovasc. Electrophysiol.* 11(9):1048-1054, 2000.	
		LARSEN, L.A. et al. "A single strand conformation polymorphism/heteroduplex (SSCP/HD) method for detection of mutations in 15 exons of the KVLQT1 gene, associated with long QT syndrome", *Clinica Chimica Acta*, 1999; 280:113-125	
		LARSEN, L.A., et al. "High-Throughput Single-Strand Conformation Polymorphism Analysis by Automated Capillary Electrophoresis: Robust Multiplex Analysis and Pattern-Based Identification of Allelic Variants", *Human Mutation*, 1999; 13:318-327	
		LARSEN, L.A. et al., "Recessive Romano-Ward syndrome associated with compound heterozygosity for two mutations in the *KVLQT1* Gene," *Eur. J. Hum. Genet.* 7(6):724-728, 1999.	
		LEE, M.P., et al. "Human KVLQT1 gene shows tissue-specific imprinting and encompasses Beckwith-Wiedemann syndrome chromosomal rearrangements", *Nature Genetics*, Feb. 1997; 15:181-185	
		LI, H. et al. "New Mutations in the KVLQT1 Potassium Channel That Cause Long-QT Syndrome", *Circulation*, 1998; 97:1264-1269	
		MAKITA, N. et al. "Cardiac Na^+ Channel Dysfunction in Brugada Syndrome is Aggravated by β_1-Subunit", *Circulation*, 2000; 101:54-60	
		MAKITA, N. et al. "A de novo missense mutation of human cardiac Na^+ channel exhibiting novel molecular mechanisms of long QT syndrome", *FEBS*, 1998; 423:5-9	
		MANNENS, M. et al. "KVLQT1, the rhythm of imprinting", *Nature Genetics*, Feb. 1997; 15:113-115	

Examiner Signature	Johanne Jarvis	Date Considered	9/22/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Complete if Known
Application Number	09/840,125
Filing Date	24 April 2001
First Named Inventor	Igor SPLAWSKI et al.
Group Art Unit	~~1655~~ 1634
Examiner Name	
Attorney Docket Number	2323-158

Sheet 6 of 9

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		MARX, J. "Rare Heart Disease Linked to Oncogene", *Research News*, May 3, 1991; p. 647	
		MOHAMMAD-PANAH, R. et al. "Mutations in a Dominant-Negative Isoform Correlate with Phenotype in Inherited Cardiac Arrhythmias", *Am. J. Hum. Genet.*, 1999; 64:1015-1023	
		MURRAY, A. et al. "Splicing Mutations in KCNQ1. A Mutation Hot Spot at Codon 344 That Produces in Frame Transcripts", *Circulation*, 1999; 100:1077-1084	
		NAPOLITANO, C. et al., "Evidence for a Cardiac Ion Channel Mutation Underlying Drug-Induced QT Prolongation and Life-Threatening Arrhythmias," *J. Cardiovasc. Electrophysiol* 11(6):691-696, 2000.	
		NEYROUD, N. et al. "A novel mutation in the potassium channel gene KVLQT1 causes the Jervell and Lange-Nielsen cardioauditory syndrome", *Nature Genetics*, Feb. 1997;15:186-189	
		NEYROUD, N. et al. "Heterozygous mutation in the pore of potassium channel gene KvLQT1 causes an apparently normal phenotype in long QT syndrome", *European Journal of Human Genetics*, 1998; 6:129-133	
		NEYROUD, N. et al. "Genomic Organization of the KCNQ1 K* Channel Gene and Identification of C-Terminal Mutations in the Long-QT Syndrome", *Circ. Res.*, 1999; 84:290-297	
		PEREON, Y. et al. "Differential expression of KvLQT1 isoforms across the human ventricular wall", *Am. J. Physiol. Heart Circ. Physiol.*, 2000; 278:H1908-H1915	
		PRIORI, S. "Is long QT syndrome entering the era of molecular diagnosis?", *Heart*, 1997; 77:5-6	
		PRIORI, S.G. et al. "A Recessive Variant of the Romano-Ward Long-QT Syndrome?", *Circulation*, 1998; 97:2420-2425	
		RODEN, D.M. et al. "Recent Advances in Understanding the Molecular Mechanisms of the Long QT Syndrome", *J. Cardiovasc. Electrophysiol.*, Nov. 1995; 6:1023-1031	
		ROMEY, G. et al. "Molecular Mechanism and Functional Significance of the MinK Control of the KvLQT1 Channel Activity", *J. Biological Chemistry*, July 4, 1997; 272(27):16713-16716	
		ROOK, M.B. et al. "Human SCN5A gene mutations alter cardiac sodium channel kinetics and are associated with the Brugada syndrome", *Cardiovascular Research*, 1999; 44:507-517	

Examiner Signature		Date Considered	9/22/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known	
Application Number	09/840,125
Filing Date	24 April 2001
First Named Inventor	Igor SPLAWSKI
Group Art Unit	~~1655~~ 1634
Examiner Name	
Attorney Docket Number	2323-158

Sheet 7 of 9

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		ROSEN, M.R. "Long QT Syndrome Patients with Gene Mutations", *Circulation*, Dec. 15, 1995; 92(12):3373-3375	
		RUSSELL, M.W. "KVLQT1 mutations in three families with familial or sporadic long QT syndrome", *Human Molecular Genetics*, 1996; 5(9):1319-1324	
		SAARINEN, K. et al., "Molecular Genetics of the Long QT Syndrome: Two Novel Mutations of the KVLQT1 Gene and Phenotypic Expression of the Mutant Gene in a Large Kindred," Hum. Mutat. 11(2):158-165, 1998.	
		SANGUINETTI, M.C. et al. "Coassembly of K_vLQT1 and minK (IsK) proteins to form cardiac I_{ks} potassium channel", *Nature*, Nov. 7, 1996; 384:80-83	
		SANGUINETTI, M.C. et al. "Potassium Channelopathies", *Neuropharmacology*, 1997; 36(6):755-762	
		SCHMITT, N. et al. "A recessive C-terminal Jervell and Lange-Nielsen mutation of the KCNQ1 channel impairs subunit assembly", *The EMBO Journal*, 2000; 19(3):332-340	
		SCHOTT, J.-J. et al. "Cardiac conduction defects associate with mutations in SCN5A", *Nature Genetics*, Sept. 1999; 23:20-21	
		SCHWARTZ, P.J. et al. "Long QT Syndrome Patients with Mutations of the SCN5A and HERG Genes Have Differential Responses to Na^+ Channel Blockade and to Increases in Heart Rate", *Circulation*, 1995; 92:3381-3386	
		SCHWARTZ, P.J. et al. "A Molecular Link Between the Sudden Infant Death Syndrome and the Long-QT Syndrome", *N. Engl. J. Med.*, July 27, 2000; 343(4):262-267	
		SHALABY, F.Y. et al. "Dominant-Negative KvLQT1 Mutations Underlie the LQT1 Form of Long QT Syndrome", *Circulation*, 1997; 96:1733-1736	
		SHIMIZU, W. et al. "Improvement of Repolarization Abnormalities by a K^+ Channel Opener in the LQT1 Form of Congential Long-QT Syndrome", *Circulation*, 1998; 97:1581-1588	
		SPLAWSKI, I. et al. "Molecular Basis of the Long-QT Syndrome Associated with Deafness", *N. Engl. J. Med.*, May 29, 1997; 336(22):1562-1567	
✓		SPLAWSKi, I. et al. "Genomic Structure of Three Long QT Syndrome Genes: KVLQT1, HERG, and KCNE1", *Genomics*, 1998; 51:86-97	

Examiner Signature	Jehanne Souaya	Date Considered	9/22/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Complete if Known
Application Number	09/840,125
Filing Date	24 April 2001
First Named Inventor	Igor SPLAWSKI et al.
Group Art Unit	~~1655~~ 1634
Examiner Name	
Sheet 8 of 9	Attorney Docket Number 2323-158

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		TANAKA, T. et al. "Four Novel KVLQT1 and Four Novel HERG Mutations in Familial Long-QT Syndrome", *Circulation*, 1997; 95:565-567	
		TOWBIN, J.A. et al. "Evidence of Genetic Heterogeneity in Romano-Ward Long QT Syndrome", *Circulation*, 1994; 90:2635-2644	
		TYSON, J. et al. "IsK and KvLQT1: mutation in either of the two subunits of the slow component of the delayed rectifier potassium channel can cause Jervell and Lange-Nielsen syndrome", *Human Molecular Genetics*, 1997; 6(12):2179-2185	
		TYSON, J. et al. "Splice Mutations In KVLQT1?", *Circulation*, 1999; 99(18):2476-2477	
		VAN DEN BERG, M.H. et al. "The long QT syndrome: a novel missense mutation in the S6 region of the KVLQT1 gene", *Hum. Genet.*, 1997; 100:356-361	
		VINCENT, G.M. "The Molecular Genetics of the Long QT Syndrome: Genes Causing Fainting and Sudden Death", *Annu. Rev. Med.*, 1998; 49:263-274	
		VINCENT, G.M. "Genetics and Molecular Biology of the Inherited Long QT Syndrome", *Annals of Medicine*, 1994; 26:419-425	
		WANG, D.W. et al. "Characterization of human cardiac Na+ channel mutations in the congenital long QT syndrome", *Proc. Natl. Acad. Sci. USA*, Nov. 1996; 93:13200-13205	
		WANG, Q. et al. "Cardiac sodium channel mutations in patients with long QT syndrome, an inherited cardiac arrhythmia", *Human Molecular Genetics*, 1995; 4(9):1603-1607	
		WANG, Q. et al. "Molecular genetics of long QT syndrome from genes to patients", *Current Opinion in Cardiology*, 1997; 12:310-320	
		WANG, Q. et al. "Positional cloning of a novel potassium channel gene: KVLQT1 mutations cause cardiac arrhythmias", *Nature Genetics*, Jan. 1996; 12:17-23	
		WANG, Q. et al. "SCN5A Mutations Associated with an Inherited Cardiac Arrhythmia, Long QT Syndrome", *Cell*, March 10, 1995; 80:805-811	
		WANG, Z. et al., "Functional Effects of Mutations in KvLQT1 that Cause Long QT Syndrome," *J. Cardiovasc. Electrophysiol.* 10(6):817-826, 1999.	
		WATTANASIRICHAIGOON, D. et al. "Sodium Channel Abnormalities are Infrequent in Patients with Long QT Syndrome: Identification of Two Novel SCN5A Mutations", *Am. J. Med. Genet.*, 1999; 86:470-476	

Examiner Signature	Johanne Douyon	Date Considered	9/22/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Complete if Known	
	Application Number	09/840,125
	Filing Date	24 April 2001
	First Named Inventor	Igor SPLAWSKI
	Group Art Unit	~~1655~~ 1634
	Examiner Name	
Sheet 9	Attorney Docket Number	2323-158

RECEIVED DEC 28 2001 TECH CENTER 1600/2900

PTO DEC 27 2001 PATENT & TRADEMARK OFFICE

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		WEI, J. et al. "Congenital Long-QT Syndrome Caused by a Novel Mutation in a Conserved Acidic Domain of the Cardiac Na+ Channel", *Circulation*, 1999; 99:3165-3171	
		WEI, J. et al., "Novel KCNQ1 Mutations Associated With Recessive and Dominant Congenital Long QT Syndromes: Evidence for Variable Hearing Phenotype Associated with R518X," *Hum. Mutat.* 15(4):387-388, 2000.	
		WOLLNIK, B. et al. "Pathophysiological mechanisms of dominant and recessive KVLQT1 K+ channel mutations found in inherited cardiac arrhythmias", *Human Molecular Genetics*, 1997; 6(11):1943-1949	
		YAMAGISHI, H. et al., "A De Novo Missense Mutation (R1623Q) of the *SCN5A* Gene in a Japanese Girl With Sporadic Long QT Syndrome," Hum. Mutat. 11(6):481, 1998, Abstract.	
		YANG, W.-P. et al. "KvLQT1, a voltage-gated potassium channel responsible for human cardiac arrhythmias", *Proc. Natl. Acad. Sci. USA*, April 1997; 94:4017-4021	
		CHOUABE, C. et al. "Properties of KvLQT1 K+ channel mutations in Romano-Ward and Jervell and Lange-Nielsen inherited cardiac arrhythmias", Accession No. AF000571; 3 pp.	
		http://www.ncbi.nlm.nih.gov; GenBank Accession No. U86146; Yang, W.P. et al. "KvLQT1, a voltage-gated potassium channel responsible for human cardiac arrhythmias", 2pp.	
		http://www.ncbi.nlm.nih.gov; OMIM Entry 600163; 11 pp.	
✓		http://www.ncbi.nlm.nih.gov; OMIM Entry 192500; 27 pp.	

Examiner Signature	Stephanie Bowers	Date Considered	9/22/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.